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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Army **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603766A: <i>Tactical Electronic Surveillance System - Adv Dev</i>
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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	19.610	5.856	8.660	-	8.660	14.704	14.212	13.950	6.775	Continuing	Continuing
907: <i>Tactical Exploitation of National Capabilities-MIP</i>	19.610	5.856	8.660	-	8.660	14.704	14.212	13.950	6.775	Continuing	Continuing

Note
 FY11 Congressional Mark of \$5.800 million, and adjustments \$0.352 million
 FY11 Congressional Add of \$7.800 million OCO RDTE for Air Vigilance prototype development

A. Mission Description and Budget Item Justification

The Tactical Exploitation of National Capabilities (TENCAP) program serves as the Army's centralized lead to perform National Intelligence cross-agency engineering to evaluate, enhance, prototype, and transition Intelligence, Surveillance, and Reconnaissance (ISR) technologies/capabilities developed by Science and Technology (S&T) and other activities across the National Intelligence Community into Army systems and architectures. TENCAP (1) ensures continued access to current National and Theater sensors and supporting tactical architectures; and (2) exploits new developments that focus on improving the tasking, analysis, processing, exploitation, and dissemination of the intelligence data collected. This includes efforts to: (1) shorten targeting timelines down to Platoon level; (2) enhance target identification; (3) provide better target location (accuracy); (4) provide continued coverage of a target; and (5) develop in-theater analytic tools to enable data exploitation in near-real-time support to contingency operations.

<u>B. Program Change Summary (\$ in Millions)</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013 Base</u>	<u>FY 2013 OCO</u>	<u>FY 2013 Total</u>
Previous President's Budget	17.962	5.766	6.542	-	6.542
Current President's Budget	19.610	5.856	8.660	-	8.660
Total Adjustments	1.648	0.090	2.118	-	2.118
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	0.090			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments 1	1.648	-	2.118	-	2.118

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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
907: <i>Tactical Exploitation of National Capabilities-MIP</i>	19.610	5.856	8.660	-	8.660	14.704	14.212	13.950	6.775	Continuing	Continuing
Quantity of RDT&E Articles											

Note

0603766A - Tactical Electronic Surveillance System program element develops advanced prototypes and capabilities to meet Army intelligence and operational requirements while protecting Army equity and ensuring continued interoperability through changes and improvements in the National Intelligence Community systems and architectures.

A. Mission Description and Budget Item Justification

The Tactical Exploitation of National Capabilities (TENCAP) program serves as the Army's centralized lead to perform National Intelligence cross-agency engineering to evaluate, enhance, prototype, and transition Intelligence, Surveillance and Reconnaissance (ISR) technologies/capabilities developed by Science and Technology (S&T) and other activities across the National Intelligence Community into Army systems and architectures. TENCAP (1) ensures continued access to current National and Theater sensors and supporting tactical architectures; and (2) exploits new developments that focus on improving the tasking, analysis, processing, exploitation, and dissemination of intelligence data. This includes efforts to: (1) shorten targeting timelines down to Platoon level; (2) enhance target identification; (3) provide better target location (accuracy); (4) provide continued coverage of a target; and (5) develop in-theater analytic tools to enable data exploitation in near-real-time support to contingency operations.

FY2013 Base funding in the amount of \$8.660 million provides for engineering and collaborative development of Intelligence Community advancements for continuous interoperability with those community assets; development of more effective intelligence collection, processing, exploitation and dissemination; development and initiation of the Air Vigilance (AV) prototype capability as an enduring Counter-Unmanned Aerial System (C-UAS) Army Program of Record.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2011	FY 2012	FY 2013
Title: TENCAP Cross-agency Engineering activities	11.810	5.766	6.542
Articles:	0	0	
Description: Collaborate, develop and exploit emerging multi-intelligence and Space-based technologies to satisfy/accelerate Army Intelligence, Surveillance, Reconnaissance (ISR), Battle Command and Force Protection requirements.			
FY 2011 Accomplishments:			
Improved 24/7 Multi-Intelligence sensor coverage; Migrated new Special Emitter Identification (SEI) capabilities to terrestrial and airborne sensors; Ensured Army requirements included in National signal intelligence (SIGINT) Increment 2 capability document; Enhanced Military Intelligence by adding SIGINT capabilities to geo-positioning on Full Motion Video (FMV); Added Moving Target Indicator (MTI) tracks on FMV; Added Human Intelligence (HUMINT) reports on FMV; Advanced Geo-spatial Imagery			

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
(AGI) exploitation tools; Enabled theater control of a National sensor; Improved identity resolution of threat targets; Improved ge-positioning accuracy across sensors/fires. FY 2012 Plans: Ensure Army requirements in National developments; Ensure Army continued access to sensors and Space-based capabilities; Monitor emerging technologies and systems; Develop and/or exploit advancements for integration and standardization in Army processing, exploitation and data dissemination (PED) and theater net-centric geolocation (TNG) capabilities; Develop prototypes that improve Army intelligence products. FY 2013 Plans: Ensure Army requirements in National developments; Ensure Army continued access to sensors and Space-based capabilities; Monitor emerging technologies and systems; Develop and/or exploit advancements for integration and standardization in Army processing, exploitation and data dissemination (PED) and theater net-centric geolocation (TNG) capabilities; Exploit commercial imagery developments; Develop prototypes that improve Army intelligence products.				
Title: Air Vigilance Description: Prototype development capability initiated under Army TENCAP program. FY 2011 Accomplishments: OCO funds provided for advanced development of Air Vigilance prototype capability. FY 2012 Plans: Continue development of Air Vigilance prototype capability for initiation as enduring Counter-Unmanned Aerial System (C-UAS) Army Program of Record. FY 2013 Plans: Establish new Counter-Unmanned Aerial System (C-UAS) Army Program of Record, development of remote and airborne capabilities.		Articles: 7.800 0	0.090 0	2.118
Accomplishments/Planned Programs Subtotals		19.610	5.856	8.660
C. Other Program Funding Summary (\$ in Millions)				
N/A				

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D. Acquisition Strategy

The Army's Tactical Exploitation of National Capabilities (TENCAP) mission is a congressionally mandated and chartered enduring requirement to leverage National intelligence capabilities useful to the tactical Army. The Army's TENCAP acquisition strategy is driven by an annual TENCAP General Officer Steering Group (TGOSG), co-chaired by the Army G2; Army G8; and the Military Deputy to the Assistant Secretary of the Army for Acquisition, Logistics, and Technology [ASA(ALT)], and includes representatives from the Army G3, Army G6, Army Training and Doctrine Command (TRADOC) and the Program Executive Office for Intelligence, Electronic Warfare and Sensors (PEO IEW&S). The TGOSG validates, prioritizes, and guides TENCAP efforts according to Army and Defense strategy. Based on TGOSG guidance, TENCAP collaborates across the Intelligence Community and within the Army to partner and facilitate transfer and integration of advanced capabilities into Army Programs of Record (POR). With acquisition discipline and oversight by PEO IEW&S, TENCAP executes those TGOSG approved efforts through multiple contracts or agreements with military and National agencies, Labs, Industry Partners and Academia to maximize Army leverage of National intelligence and technology development and minimize redundancy and cost. TENCAP manages these acquisition efforts, including rapid development and delivery of advanced capabilities, to meet Army validated but unforeseen warfighter requirements (including efforts referred to as Quick Reaction Capabilities), for the duration required to transition emerging and developmental capabilities into enduring Army programs.

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army **DATE:** February 2012

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Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Intelligence Subject Matter Experts and Engineers (SETA)	C/FFP	TASC, Inc.:Alexandria, VA	7.000	2.474		3.126		-		3.126	Continuing	Continuing	Continuing
Imagery Intelligence Engineers(Matrix Government)	MIPR	Army Geospatial Center (AGC):Alexandria, VA	1.800	0.870		0.950		-		0.950	Continuing	Continuing	Continuing
Subtotal			8.800	3.344		4.076		-		4.076			

Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
TENCAP Focus Areas	Various	Multiple:Multiple	7.669	-		-		-		-	Continuing	Continuing	0.000
Air Vigilance	MIPR	Classified:Multiple	11.800	0.090		1.838		-		1.838	0.000	13.728	0.000
Subtotal			19.469	0.090		1.838		-		1.838			0.000

Support (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Prgm Mgmt -Dir Gov, travel, facilities	Various	ASPO:Alexandria, VA	5.214	2.422		2.466		-		2.466	Continuing	Continuing	0.000
Subtotal			5.214	2.422		2.466		-		2.466			0.000

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Lab Tests, Exercises and Mission Rehearsals	MIPR	Multiple:Multiple	1.891	-		0.280		-		0.280	Continuing	Continuing	Continuing
Subtotal			1.891	-		0.280		-		0.280			

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 Army **DATE:** February 2012

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	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
TENCAP General Officer Steering Group (TGOSG) - annual																												
TGOSG - annual - guides FY15-19 POM																												
TGOSG - annual - guides FY16-20 POM																												
TGOSG - annual - guides FY17-21 POM																												
Material Dev Decision (MDD) for Counter-UAS program																												

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 Army **DATE:** February 2012

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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
TENCAP General Officer Steering Group (TGOSG) - annual	4	2011	4	2011
TGOSG - annual - guides FY15-19 POM	4	2012	4	2012
TGOSG - annual - guides FY16-20 POM	4	2013	4	2013
TGOSG - annual - guides FY17-21 POM	4	2014	4	2014
Material Dev Decision (MDD) for Counter-UAS program	3	2012	3	2012